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## 硕 士 学 位 论 文

# 厦门大学思明校区交通系统改造设计研究

### Research on the Optimal Design about Campus Transportation in Siming Campus of Xiamen University

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## 摘 要

交通系统是大学校园空间的骨架,对校园人流物流的运输、信息的传递和校园生活的质量有着重要的影响。伴随着我国高校的扩招和城市交通机动化时代的来临,厦门大学思明校区的在校师生人数和机动车数量都迅速增加,最初基于步行需求建立起来的校园交通系统面临着巨大的考验。机动车给校园生活带来便利的同时也带来了交通拥堵、安全威胁、空气污染和噪音污染,破坏了校园的安宁和人文氛围。

本文以厦门大学思明校区为研究对象,将相关的城市和居住区交通理论与大学校园交通系统联系起来,总结出一些校园交通改造的原则;并通过台湾和香港地区大学交通案例的实地调研,归纳出一些可借鉴的设计方法;进而针对思明校区现有交通问题提出具体的改造设计方案,对校园交通更新有一定的实际意义。

论文大致分为三个部分:

第一部分为第一章绪论,阐述了论文的研究背景、研究目的与意义,介绍了相关的基本概念和研究现状,并提出了研究方法与研究框架。

第二部分为第二章,对城市和居住区交通理论的发展进行梳理和研究,并将其与校园交通联系起来,提出校园交通改造的五个原则;然后以案例的形式探讨了台湾和香港地区的大学校园的交通系统的特点,归纳出对应这五个原则的一些实际设计方法。

第三部分为第三、四、五章,为论文的核心部分。第三章通过实地调研和分析,总结出厦门大学思明校区现有交通系统存在的问题,作为改造设计的依据。第四章是思明校区交通系统改造设计研究部分,从第二章提出的五个原则出发,针对第三章总结出的实际问题,相应地提出具有可行性的具体改造设计方案。第五章结论即对全文的总结,归纳了思明校区交通系统的改造在实际设计研究操作层面的一些方法。

**关键词:** 厦门大学思明校区 校园交通系统 改造设计



## **Abstract**

The transportation system is the framework of campus. It influences on the flow of people and materials in campus significantly. With the Expansion Policy of University put into effect in our country and the development of motorized carriages, the amount of people and cars in the Siming campus of Xiamen University has rose rapidly , the transportation system in Siming campus which was founded from the demands of ambulation is facing the huge challenge now. Motorized carriages bring convenience but traffic jam, security threats, air pollution at the same time to damage the quiet and humanistic atmosphere of the campus.

The dissertation studies on Siming campus. Relate the traffic theories of city and residential area to the campus transportation to conclude some principles. Research on campus in Taiwan and Hong Kong to conclude some actual design method. And put forward a detail optimal design of campus transportation in Siming campus according to solve the transportation problems. It can offer references for the renewal of the Siming campus.

The dissertation is roughly into three parts:

The first part is the first chapter that introduces the background, the purposes and the meaning of the research. Then it introduces the correlative basic concepts and the current study situation and put forward the study method and framework.

The second part is the second chapter that studies on the traffic theories of city and residential area. Relate these theories to the campus transportation and put forward five principles of optimal design of campus transportation. And research on the campus in Taiwan and Hong kong to conclude some actual design method corresponding to these five principles.

The third part includes the third chapter, the fourth chapter and the fifth chapter. It is the central part of the dissertation. The third chapter research on the system of campus transportation in Siming campus to conclude the problems of it that can be the basis of the optimal design. The fourth chapter put forward the detailed optimal



design of the campus transportation in Siming campus according to the five principles which are put forward from the second chapter to solve the problems which are concluded from the third chapter. The fifth chapter is the summary to this dissertation by concluding some practical method of optimal design of campus transportation in Siming campus of Xiamen University.

**Key Words:** the Siming Campus of Xiamen University; the System of Campus Transportation; Optimal Design

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